Approximate the square root of 8.

Below is Sara’s response to this problem.

Since 8 is closer to 9 to approximate I will start at 9. Then, 9 – 8 = 1 and 9 – 4 = 5. I will write this as a fraction with 1 being the distance between the closest perfect square and 8 and 5 being the distance between the two closest perfect squares. I will then divide 1 divided by 5 to get the decimal approximation which is 0.2. I will then subtract 3-0.2 = 2.8.

Does Sara’s response answer the question correctly? Why or why not does her response give the correct answer?